

11-6: Factoring Quadratic Trinomials and Related Polynomials

Not all quadratics will be easy to factor. As a last resort, we do have a way to find the zeros of *any* quadratic...

Example 1: Solve by factoring: $m^2 + 2m - 6399 = 0$.

QUICK! What are the factors of -6399 ? And they need to add up to 2!

Factors:

Example 2: Factor $20x^2 - 53x + 12$.

Example 3: Factor $4y^2 - 6$ over irrational roots.

Example 4: Factor $x^2 - 12x + 5$ over irrational zeros.

Example 5: Solve $12x^3 + 18x^2 + 12x = 0$.

Homework:

“Learn from yesterday, live for today, hope for tomorrow. The important thing is not to stop questioning.” – Albert Einstein